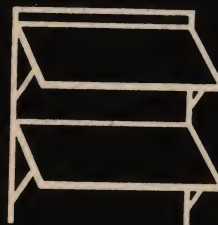


WHITCO

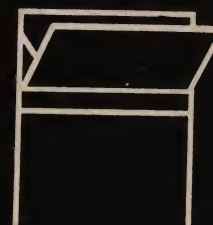
sash hardware



for... casements



awning type

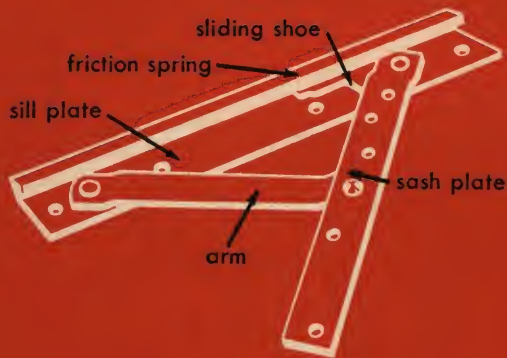


transoms

VINCENT WHITNEY COMPANY
SAUSALITO, CALIFORNIA

WHITCO

sash hardware



Standard "X" Line: for all types of 1 3/8" Sash. Note: for 1 3/4" and larger sash, see specific sash types, pages 3, 4, and 5

construction

Whitco hardware is backed by a generation of field testing. Several million sets of Whitco hardware are now in use. Reversible action permits two-side window cleaning from the inside of the room. Simple mill detail required and low labor cost at point of installation make Whitco economical. All sizes are available in Eternaplated Steel (electro-galvanized by our own process) or solid brass. Whitco hardware is adaptable to all sizes and types of casements, awning-type windows or transoms. Built-in wind-holder prevents slamming or rattling even under unusual wind conditions. Whitco hardware needs no lubrication, and its sag-proof construction means chatter-free, free-acting, opening and closing of the sash.

Whitco hardware is interchangeable. You need not specify whether it is to be used for right-or-left swing casement sash, or top- or bottom-hung transom sash. The width of the casement sash or the height of the transom and awning sash (and the sash thickness) are the only factors that need to be considered.

short specifications

All sash hardware for casements, awning type windows and transoms shall be WHITCO as manufactured by Vincent Whitney Company, Sausalito, California, and shall be installed in accordance with manufacturer's recommendations. Material shall be steel with electro-galvanized finish, brass sliding shoes, rivets and washers, or when specified, all solid brass. Sash hardware shall include a built-in spring friction Wind-Holder to prevent slamming or rattling from wind pressure.

casement type



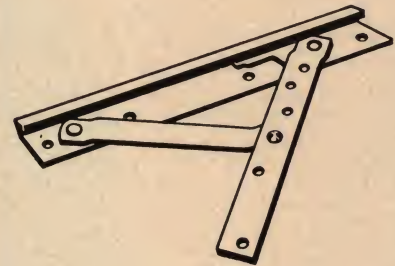
awning type



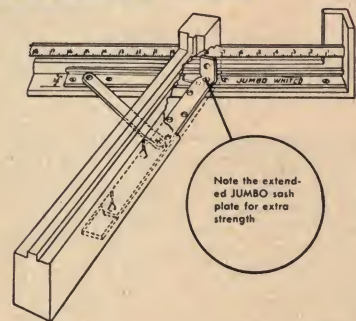
transom type



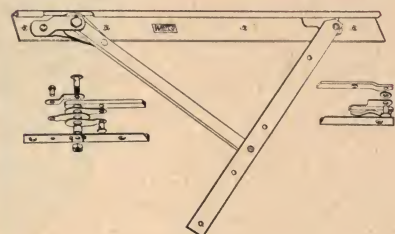
for 1 3/8" sash
series X and XN



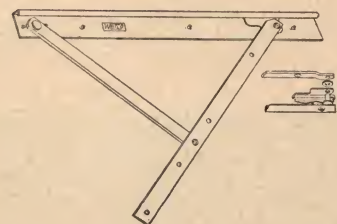
for 1 3/4" sash and larger
series JS (the Jumbo)



for 1 3/4" sash and larger
series 100AW



series 200AW





casement • awning • transom types

18b-Wh

casements • awnings • transoms

Series X is an accepted standard. Like all Whitco hardware it is interchangeable and need not be specified as right or left swing casements or top or bottom hung awning or transom sash. The width of the casement sash or the height of the awning or transom sash are the only factors that need to be considered.

Whitco series X hardware stock numbers refer to the length in inches of the hardware and the letter B refers to solid brass. For instance, 12BX means series X hardware 12" in length and manufactured of solid brass.

The series XN and 34-A were engineered for use on sash lighter than 1 $\frac{3}{8}$ ". More details are shown at bottom of page 4.

casements

Whitco series JS (the Jumbo) embodies all the features of the series X plus a lengthened sash plate forged to form a right angle and extend along the sash rail and up the stile, thus reinforcing the casement sash at its weakest point.

Construction is heavier throughout as it is engineered to accommodate large and heavy casement sash. It is available from stock with a 16" and 24" sill plate. For 1 $\frac{3}{4}$ " sash.

awnings • transoms

The series 100AW and 200AW hardware is designed for 1 $\frac{3}{4}$ " and larger awning and transom sash as used on fine residences, schools, industrial and office buildings. They provide reversible action for easy window cleaning and controlled ventilation as does the entire Whitco line.

Extreme wind conditions or extra large and heavy sash may call for the optional Whitco hardware feature, "Adjustable Bolt Tension" in addition to "Spring Friction." This extra feature is available only in the series 100AW. Select this hardware with the assurance that "Free Action" is positive regardless of wind pressure or sash weight.

Heavy construction of the series 200AW plus "Spring Friction" wind-holder action, engineered for large and heavy awning and transom sash, provides dependable operation under all normal requirements.

SELECTION CHART

for 1 $\frac{3}{8}$ " sash



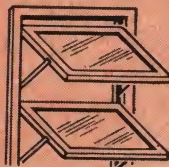
casement type (not exceeding 4'6" in height)

Sash Widths (Approx.)	Hardware Lengths	STOCK NUMBERS	
		Steel*	Solid Brass†
up to 8"	4"	4X	4BX
8" to 12"	6"	6X	6BX
12" to 16"	8"	8X	8BX
16" to 20"	10"	10X	10BX
20" to 24"	12"	12X	12BX
24" to 28"	14"	14X	14BX
28" to 30"	16"	16X	16BX
30" to 32"	18"	18X	18BX
32" to 34"	20"	20X	20BX
34" to 36"	22"	22X	22BX
36" to 38"	24"	24X	24BX

*Meet Federal Specifications FF-H-111a, Type F 1128.

†Meet Federal Specifications FF-H-111a, Type 1128.

awning and transom types



Sash Heights (Approx.)	Hardware Lengths	STOCK NUMBERS	
		Steel*	Solid Brass†
6"	4"	4X	4BX
8"	6"	6X	6BX
10"	8"	8X	8BX
12"	10"	10X	10BX
14"	12"	12X	12BX
16"	14"	14X	14BX
18"	16"	16X	16BX
20"	18"	18X	18BX
24"	20"	20X	20BX
28"	22"	22X	22BX
29" to 36"	24"	24X	24BX

*Meet Federal Specifications FF-H-111a, Type F 1108.

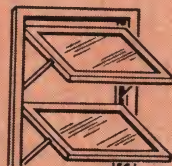
†Meet Federal Specifications FF-H-111a, Type 1108.

for 1 $\frac{3}{4}$ " sash or larger



casement type • series JS, Jumbo

Sash Widths (Approx.)	Hardware Lengths	STOCK NUMBERS	
		Steel	Brass
up to 36"	16"	16JS	16JB
36" to 48"	24"	24JS	24JB



awning and transom type

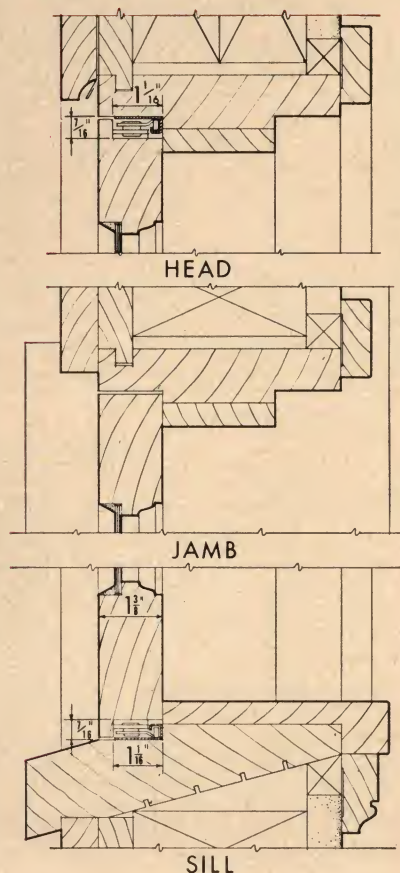
Sash Height (approx.)	Hardware Length	STOCK NUMBERS			
		Series 100 AW bolt tension type		Series 200 AW Spring friction type	
		Steel*	Solid Brass†	Steel*	Solid Brass†
16"	14"	114AW	114BAW	214AW	214BAW
18"	16"	116AW	116BAW	216AW	216BAW
20"	18"	118AW	118BAW	218AW	218BAW
22"	20"	120AW	120BAW	220AW	220BAW
28"	24"	124AW	124BAW	224AW	224BAW
36"	30"	130AW	130BAW	230AW	230BAW
40"	36"	136AW	136BAW	236AW	236BAW
48"	42"	142AW	142BAW	242AW	242BAW
54"	48"	148AW	148BAW	248AW	248BAW
60"	48"	148AW	148BAW	—	—

*Meet Federal Specifications FF-H-111a, Type F 1128H and FF-H-111a, Type F 1108H.

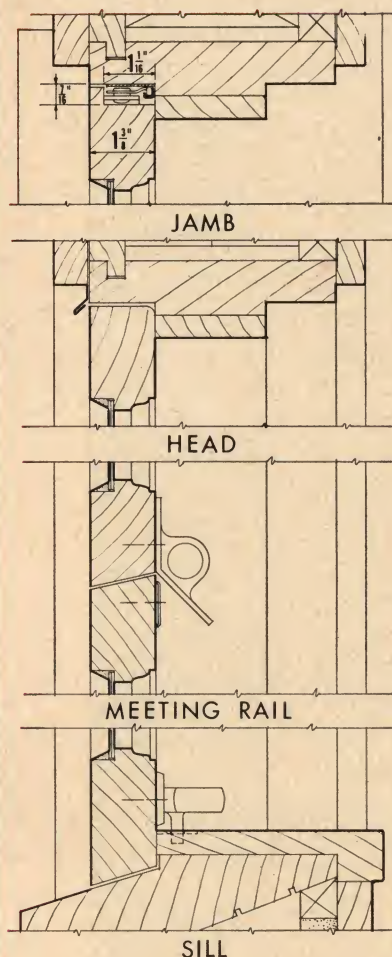
†Meet Federal Specifications FF-H-111a, Type 1128H and FF-H-111a, Type 1108H.

1 3/8" sash • using series X and XN

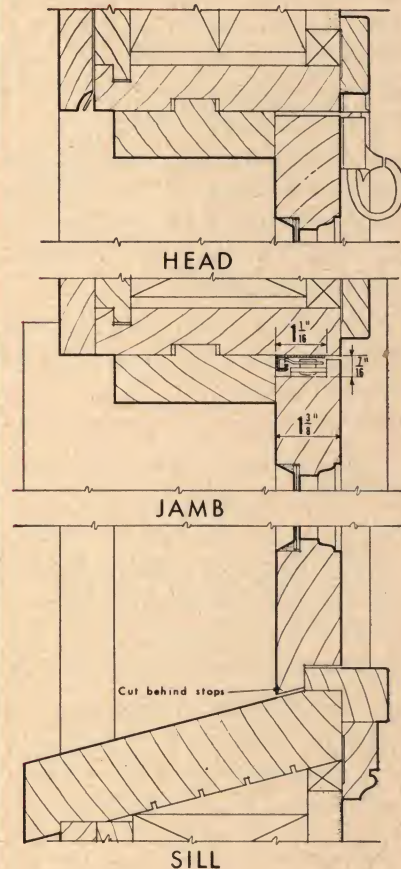
casement



awning

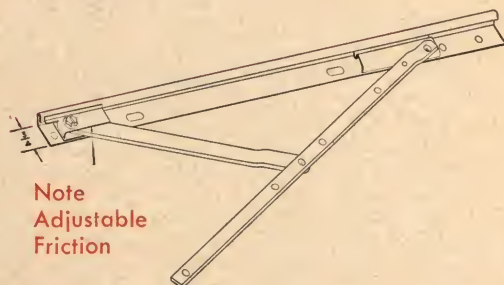


transom

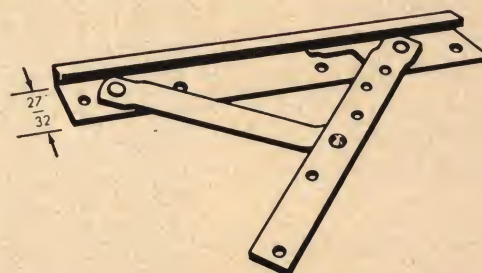


series XN and series 34A

These two additions to the Whitco line are designed for installation on sash lighter than 1 3/8" or when more room is desired for weatherstripping.



The 34A series is extremely narrow and requires a rabbet 7/16" x 3/4" x length of hardware. The friction can be adjusted by means of a slotted bolt so the same hardware can be used either for manual operation or with roto operators. Sizes available are 10", 12", 14" and 16".

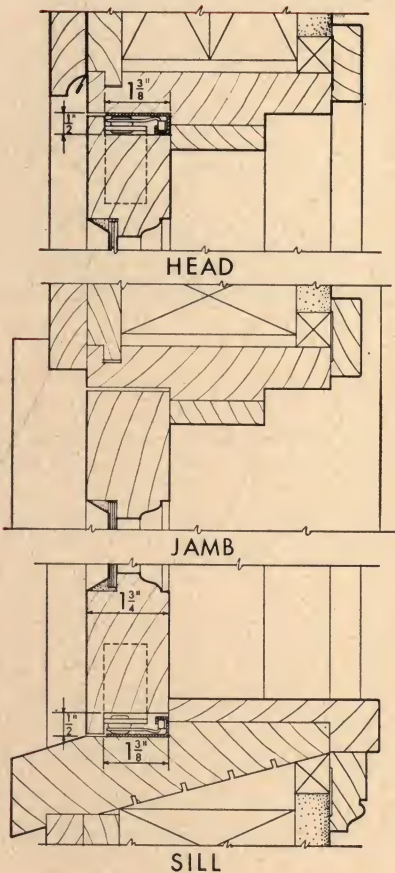


The XN series requires a rabbet only 7/16" x 27/32" x length of hardware. It is available in "Spring Friction" for manual operation or non-friction for use with Whitco sill operators. It is available in all standard sizes from 4" to 24".

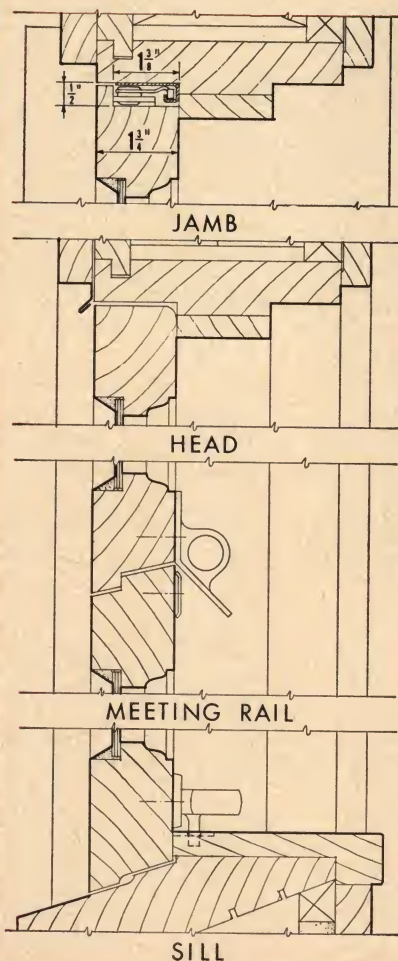


1 3/4" sash • using series J and 100-200AW

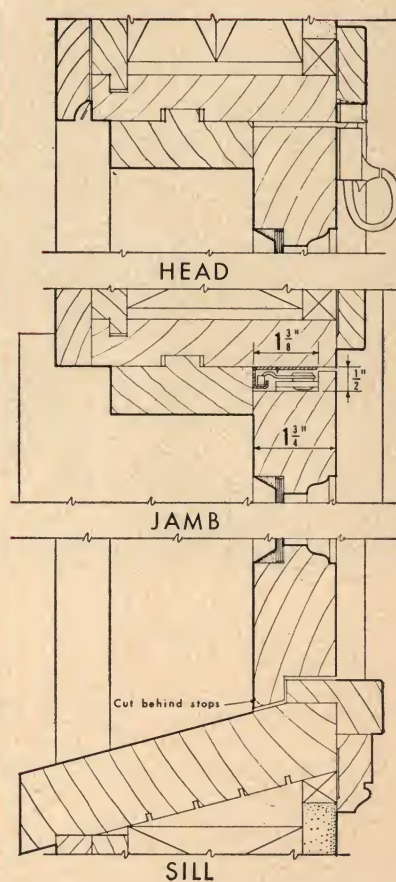
casement



awning



transom



typical installations

CALIFORNIA

Muroc Muroc Air Force Base
San Diego Langley Corporation
San Diego Wherry Housing Project

CONNECTICUT

Hartford Beth Israel Temple
Stonington Stonington High School

MASSACHUSETTS

Auburndale LaSalle Jr. College
Northboro Northboro Elementary School
Walpole United Church
Westboro Lyman School for Boys

NEW YORK

Massapequa, L.I. Carman Road and Birch Lane Schools
Massapequa Park, L.I. Hawthorne School
New Paltz New Paltz Central School

RHODE ISLAND

Providence Providence Y.M.C.A.

WASHINGTON

Seattle Coleman Dock
Spokane Fairchild Air Force Base Hospital

ALASKA

Ladd Field Veterans' Hospital

HAWAIIAN ISLANDS

Honolulu University of Hawaii
Honolulu Kamehameha School Buildings

PHILIPPINE ISLANDS

Caloocan, Rizal Nomar Chemical Laboratories
Clark Field NCO Housing, 13th Air Force, USAF

ALBERTA, CANADA

Edmonton Administration Bldg., Greisbach Barracks

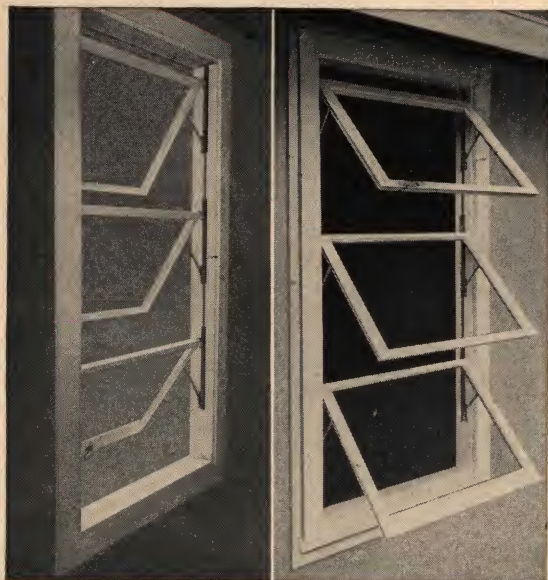
BRITISH COLUMBIA, CANADA

Burnaby Child Guidance and Day Hospital
Coquitlam Canadian Western Pipe Mills

ONTARIO, CANADA

Guelph King George Elementary School
London Knollwood Park School

WHITLINK* for multi-sash windows



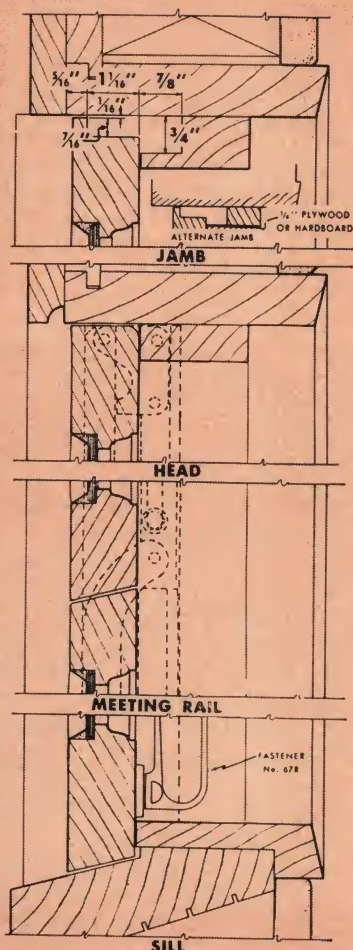
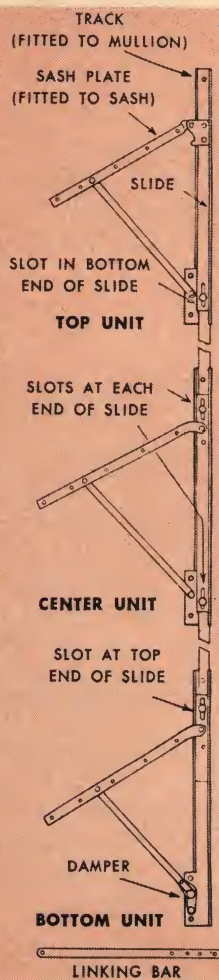
easy to install...easy to operate...low in price

WHITCO now brings you WHITLINK multi-sash hardware for linking awning type windows. The design of this hardware is simple, practical and foolproof. The hardware of one window is linked to that of the other one or two windows by a bar which thereby operates the windows simultaneously.

All parts of the WHITLINK Hardware are precision-built and operate smoothly. An effect of counterbalancing of the weight of the window is achieved by the position of the supporting arm. Therefore, all windows in a group operate easily by push or pull on the lower window. The windows will remain at rest in any position because of a special adjustable bolt tension.

WHITLINK is made in two sizes: 12L (track 13" long) for sash 18" to 22" high. 16L (track 17" long) for sash 23" to 27" high.

WHITLINK may be used on $1\frac{3}{8}$ " or $1\frac{3}{4}$ " sash. The housing is $1\frac{1}{16}$ " as for X-type Whitco. Shown on page 2.



WHITLINK can be furnished for windows two- or three-sash high and can be varied to different sash heights (within the limits above) by adjusting cap screws on the linking bars.

WHITLINK sizes:

for sash 18" to 22"	12L2 two-sash high
	12L3 three-sash high
for sash 23" to 28"	16L2 two-sash high
	16L3 three-sash high

WHITLINK can be installed on the job by any carpenter. No fastener is necessary at the meeting rail.

WHITLINK is steel and is electro-galvanized.

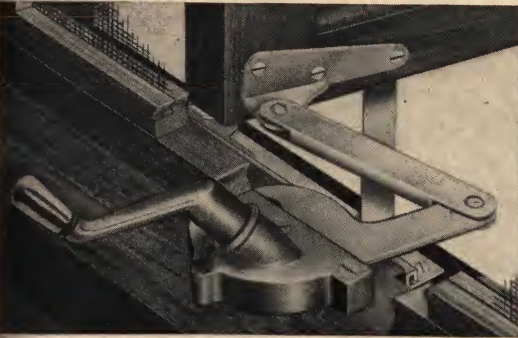
Shown at the left are the basic fixtures (track, sash plate and slide) and a linking bar.

If it is desired to operate the bottom sash as a separate unit, the bottom sash can be hung on standard Whitco hardware while the two upper sash are hung on WHITLINK.

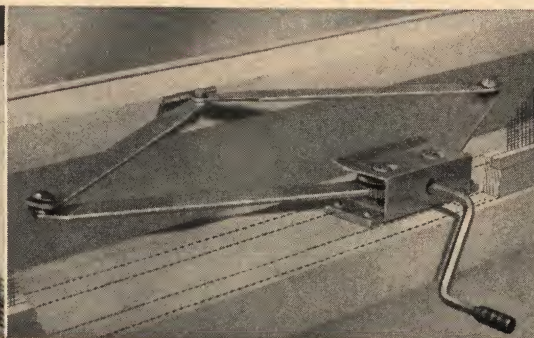


underscreen operators • casement and awning types

permit operating the sash without disturbing the screen



4703WX operating a left hand casement



240 operator installation on awning type window

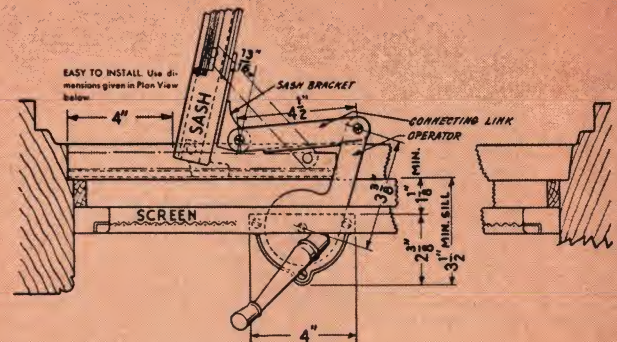


22 operator installation on awning type window

casement type operator 4703WX

Easy to install. The 4703WX operator's sturdy construction and powerful internal gearing assure smooth operation and life-time service. Designed to operate a casement window equipped with Whitco Type D non-friction hinges, this operator provides all the advantages inherent in the Whitco sliding hinge. These include maximum ventilation, exterior window cleaning from the interior of the room and still permits inside screening.

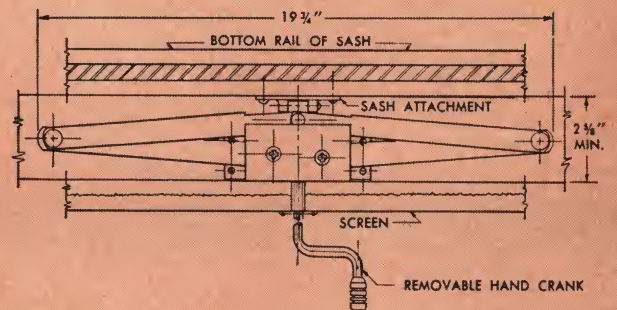
when ordering—specify whether casement opens to the left or right as viewed from the inside and indicate the width of sash. Order WHITCO (type D non-friction hardware) to use with No. 4703WX operator. Specify length of hardware, approximately 50% of the width of sash. Stocked in bronze finish. Other finishes upon request.



awning type operator 240

The 240 operator assures easy opening and positive closing of awning sash equipped with Whitco Type D non-friction hardware. The gears are operated by a single worm gear with a detachable handle thru a small hole at the bottom of the screen. The operator disconnects at the sash so the window can be reversed for easy cleaning from the inside. Easy to install. This heavy duty operator is especially recommended for use with multiple operating WHITLINK and large and heavy sash. Available for chain operation or swivel eye for pole operation.

when ordering—Order WHITCO Type D non-friction hardware for use with 240 operator. Recommended length of Whitco hardware is approximately 2/3 of sash height. Specify cadmium plate or copper tone lacquer finish. Specify operation desired—crank, chain or pole.

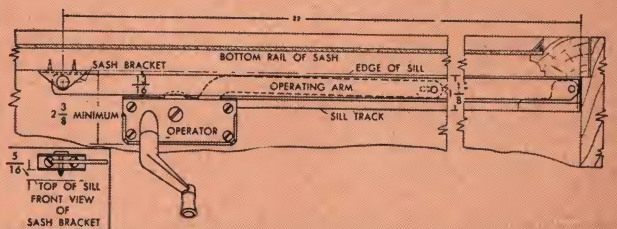


awning type operator 22

Economy model 22 underscreen operator efficiently operates awning sash up to 45 1/2" wide. All mechanism is concealed. Easy to install. No special millwork, mortising or rabbeting is required. Operator holds sash tight when closed, opens window to 50 degrees with only four turns of the crank handle. Disconnect the operator at the sash to reverse window for easy washing. Gears are hardened steel. The sash bracket is 1/2" in overall height and fits on extremely narrow sash rails. Stocked in Bronze finish. Other finishes upon request.

when ordering—Order #22-22" size for sash 40 to 48" wide; #22-18" size for sash 32" to 39" wide; and #22-14" size for sash up to 31" wide. Order WHITCO (type D non-friction hardware) for use with No. 22 operators.

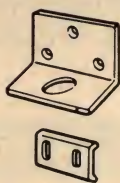
CAUTION: Sill operators for awning type installation are not recommended when sash are less than 16" in height.



fasteners and pulls



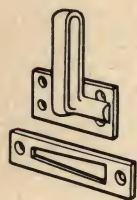
No. 44
Transom Arm Pull



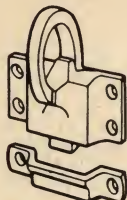
No. 55A
Meeting Rail Fastener



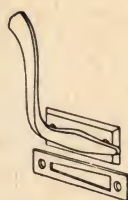
No. 55B
Ring Pull



No. 67R
Sash Fastener



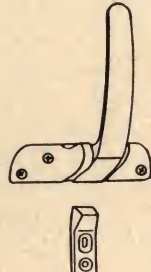
No. T33
Transom Catch



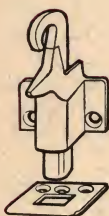
No. 47R
Sash Fastener



No. 17A
Sash
Fastener



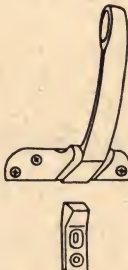
No. 17B
Sash
Fastener



No. T44
Transom Catch



No. 19A
Sash Fastener



No. 19B
Sash Fastener

No.	Description	Metal Applied to	Description of Finish	U. S. Standard Finish
44	Transom Arm Pull	Steel	Electro-Galv.	US 2
		Brass	Bright Brass	US 3
		Brass	Dull Brass	US 4
		Brass	Bright Bronze	US 9
		Brass	Dull Bronze	US 10
		Brass	Bright Chrome	US 26
		Brass	Dull Chrome	US 26D
55A	Meeting Rail Fastener	Steel	Electro-Galv.	US 2
55B	Ring Pull	Brass	Dull Brass	US 4
		Bronze	Cast Unfinished	
		Bronze	Bright Brass	US 3
		Bronze	Dull Brass	US 4
		Bronze	Bright Bronze	US 9
		Bronze	Dull Bronze	US 10
		Bronze	Bright Chrome	US 26
		Bronze	Dull Chrome	US 26D
67R	Sash Fastener (Right Hand)	Bronze	Bright Brass	US 3
67L	Sash Fastener (Left Hand) (With Mortise Strike)	Bronze	Dull Brass	US 4
		Bronze	Bright Bronze	US 9
		Bronze	Dull Bronze	US 10
		Bronze	Bright Chrome	US 26
		Bronze	Dull Chrome	US 26D
		Bronze		
T33	Transom Catch (With Box Strike— Universal Strike Optional)	Bronze	Bright Brass	US 3
T33R	{ Above with Reverse Bevel	Bronze	Dull Brass	US 4
		Bronze	Bright Bronze	US 9
		Bronze	Dull Bronze	US 10
		Bronze	Bright Chrome	US 26
		Bronze	Dull Chrome	US 26D
		Bronze		
T44	Transom Catch (Heavy Duty) (With Universal Strike)	Bronze	Bright Brass	US 3
		Bronze	Dull Brass	US 4
		Bronze	Bright Bronze	US 9
		Bronze	Dull Bronze	US 10
		Bronze	Bright Chrome	US 26
		Bronze	Dull Chrome	US 26D
47R	Sash Fastener (Right Hand)	Bronze	Bright Brass	US 3
47L	Sash Fastener (Left Hand)	Bronze	Dull Brass	US 4
		Bronze	Bright Bronze	US 9
		Bronze	Dull Bronze	US 10
		Bronze	Bright Chrome	US 26
		Bronze	Dull Chrome	US 26D
		Bronze		
17A	Sash Fastener (1 3/4" Projection)	Bronze	Bright Brass	US 3
17B	Sash Fastener (3 3/4" Projection)	Bronze	Dull Brass	US 4
		Bronze	Bright Bronze	US 9
		Bronze	Dull Bronze	US 10
		Bronze	Bright Chrome	US 26
		Bronze	Dull Chrome	US 26D
		Bronze		
19A	Sash Fastener (1 3/4" Projection)	Bronze	Bright Brass	US 3
19B	Sash Fastener (3 3/4" Projection)	Bronze	Dull Brass	US 4
		Bronze	Bright Bronze	US 9
		Bronze	Dull Bronze	US 10
		Bronze	Bright Chrome	US 26
		Bronze	Dull Chrome	US 26D
		Bronze		

WHITCO representatives

ATLANTA, GA.
Roy C. Joiner Co., Vienna, Ga.
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J. H. Slater & Co.
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WASHINGTON, D. C.
E. R. Selinger
8237 Georgia Ave., Silver Spring, Md.

VINCENT WHITNEY COMPANY

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